

# A Powerful Opportunity

## DFC® CHP Success Stories

Andrew Skok  
FuelCell Energy Inc.



# Who is FuelCell Energy?

- A leading fuel cell technology developer for over 30 years
- Actively marketing, manufacturing and delivering power plants worldwide
- Headquartered in Danbury, CT; Mfg Facilities in Torrington, CT
- 480 Employees
- Over \$500 million invested in fuel cell technology development
- Visit Us at [www.fuelcellenergy.com](http://www.fuelcellenergy.com)



# DFC Fuel Cell Technology Available Today



**DFC® 300**



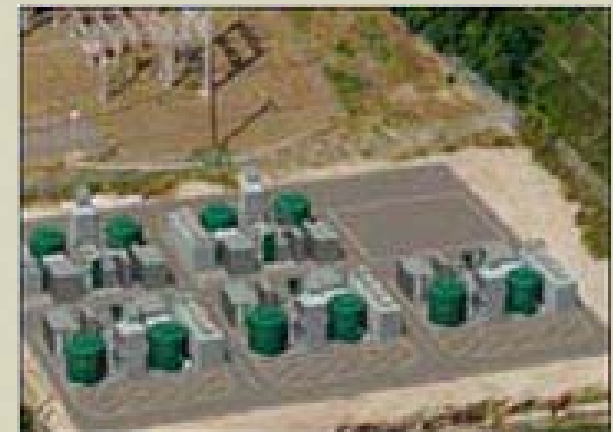
**DFC® 1500**



**DFC® 3000**

## Ultra-clean products available today

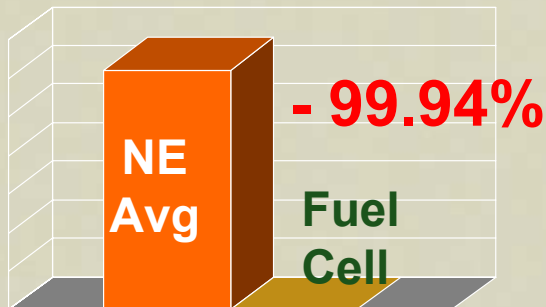
- Over 40 million kwh's of power generated; over 30 units delivered to date
- Uses natural gas, coal gas, or digester gas and other renewable fuels as they become available
- Distributed generation to relieve grid congestion and vulnerability to terrorists
- 24/7 power for critical infrastructure



**Multi-MW Grid Support**

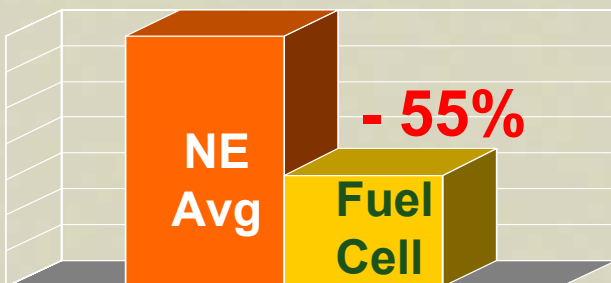
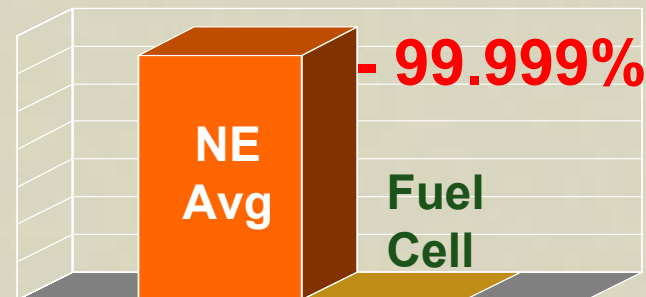
# Meaningful Emissions Reduction...

## *100 MW Fuel Cells vs Average Fossil Plant*



Reduction of 1,240 Tons  
per year of NOX

Reduction of 3,250 Tons  
per year of SO2



Reduction of 387,000 Tons  
per year of CO2

Average emissions from New England fossil fueled plants  
Source: US EPA



# U S COAST GUARD AIR STATION

Search and Rescue ... where power really is critical



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- 250 kW critical power for part of the base backed up by the “grid”



# U S COAST GUARD AIR STATION

Search and Rescue ... where power really is critical





# Simple Co-Generation Installation

- Waste heat recovery system provides steam and hot water





# CHP at Zoot's Credit Card Processing Facility



# CHP at Yale's Peabody Museum



# Multiple CHP Applications at Starwood Hotels





# Waste Water Treatment Facilities – A Unique Opportunity

- Uses anaerobic digester gas from industrial and municipal waste water treatment facilities
- Use of “bio” gas makes this a “renewable” application.
- Favorable economics – fuel generated by application
- King County, Kirin Brewery, City of Fukuoka and Terminal Island (pictured here)



***Over 500 MW Waste Water Fuel Cell Installations by 2011\****

\* - Allied Business Intelligence's 2001 Study, "Stationary Fuel Cells: U.S. and Global Early Market Opportunities."



# MW Size Power Plant Operating on ADG Fuel



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